

^{137}Eu $Z = 63$ $N = 74$ adopted link ENSDF link

Based on ENSDF from Oct 2022, and mass evaluation from 2020

BE = 1116.629 (0.004) MeV

Qbeta+ = 7.846 (0.029) MeV

	Energy T	J+	J-	J-other	T1/2

S-alpha=	-2.837	(0.050)	-----		
137EU	1			0.000 (11/2-)	1 11 S 2
137EU	2			0.273 (15/2-)	2
S-p	= 0.624	(0.013)	-----		
137EU	3			0.742 (19/2-)	3
137EU	4			1.354 (23/2-)	4
137EU	5			2.076 (27/2-)	5
137EU	6			2.876 (31/2-)	6
137EU	7			3.733 (35/2-)	7
137EU	8			4.645 (39/2-)	8
137EU	9			0.000 (11/2-)	9

S-p = 0.624 (0.013)-----
S-n = 12.037 (0.136)-----
S-2p = 4.662 (0.083)-----
S-2n = 22.184 (0.135)-----
S-alpha= -2.837 (0.050)-----

S+p = -2.827 (0.138)
S+n = -9.675 (0.028)
S+2p = -2.599 (0.278)
S+2n = -21.395 (0.014)
S+alpha = 3.180 (0.105)

gap p = -2.203 (0.139)
gap n = 2.362 (0.139)
gap 2p = 2.062 (0.290)
gap 2n = 0.789 (0.136)
gap alpha = 0.343 (0.117)